1/4

510(k) Summary

JUN - 1 2012

This summary of 510(k) safety and effectiveness information is being submitted in accordance with the requirement of SMDA and 21 CFR 807.92.

1.0 submitter's information

Name:

Andon Health Co., Ltd.

Address:

No 3, Jinping Street Ya An Road, Nankai District, Tianjin,

P.R. China

Phone number:

86-22-6052 6161

Fax number:

86-22-6052 6162

Contact:

Liu Yi

Date of Application:

02/27/2012

2.0 Device information

Trade name:

iHealth BP5 Fully Automatic Arm Cuff Wireless Blood

Pressure Dock

Device name:

KD-936 Fully Automatic Wireless Blood Pressure

Monitor

Classification name: Noninvasive blood pressure measurement system

3.0 Classification

Production code: DXN- Noninvasive blood pressure measurement system.

Regulation number: 870.1130

Classification:

II

Panel:

Cardiovascular

4.0 Predicate device information

Manufacturer:

Andon Health Co., Ltd.

Device:

iHealth BP3 Fully Automatic Arm Cuff Electronic Blood

Pressure Dock

510(k) number:

K102939

5.0 Device description

KD-936 Fully Automatic Wireless Blood Pressure Monitor is for use by medical professionals or at home and is a non-invasive blood pressure measurement system intended to measure the diastolic and systolic blood pressures and pulse rate of an adult individual by using a non-invasive technique in which an inflatable cuff is wrapped around the upper arm. The cuff circumference is limited to 22cm-48cm.

KD-936 Fully Automatic Wireless Blood Pressure Monitor is designed and manufactured according to ANSI/AAMI SP10--manual, electronic or automated sphygmanometers.

The operational principle is based on oscillometric and silicon integrates pressure sensor technology, it can calculate the systolic and diastolic blood pressure, the measurements results can also be classified by the function of blood pressure classification indicator. If any irregular heartbeat is detected, it can be shown to the user. More over, it also obtains the function of averaging the measurement results.

KD-936 Fully Automatic Wireless Blood Pressure Monitor achieves its function by integrate the device with an iPhone, ipod or ipad. For it does not contain an LCD or other display components, so It's necessary for the new device to connect to an iPhone, iPod or iPad containing a support software to constitute a complete blood pressure measurement system. And the new device connect iPhone, iPod or iPad through bluetooth.

6.0 Intended use

KD-936 Fully Automatic Wireless Blood Pressure Monitor is for use by medical professionals or at home and is a non-invasive blood pressure measurement system intended to measure the diastolic and systolic blood pressures and pulse rate of an adult individual by using a non-invasive technique in which an inflatable cuff is wrapped around the upper arm. The cuff circumference is limited to 22cm-48cm.

The intended use and the indication for use of the KD-936 Fully Automatic Wireless Blood Pressure Monitor, as described in its labeling are the same as the predicate device iHealth BP3.

7.0 <u>Summary comparing technological characteristics with predicate</u> device

Technological Characteristics	Comparison result		
Design principle	Identical		
Appearance	Similar		
Patients contact Materials	Identical		
Performance	Similar		
Biocompatibility	Identical		
Mechanical safety	Identical		
Energy source	Identical		
Standards met	Identical		
Electrical safety	Identical		
EMC	Identical		
Function	Similar		

8.0 Discussion of non-clinical and clinical test performed

Non-clinical Tests have been done as follows:

- a. Electromagnetic compatibility test according to IEC 60601-1-2;
- b. Electrical safety according test to IEC 60601-1 and IEC 60601-1-1
- c. FCC test according to FCC part 15 (2009)
- d. Safety and performance characteristics of the test according to SP10

None of the test demonstrates that KD-936 Fully Automatic Wireless Blood Pressure Monitor brings new questions of safety and effectiveness.

Clinical Test Concerning the Compliance of ANSI/AAMI SP10

Compared to inflation detection of its predicate device iHealth BP3, KD-936 Fully Automatic Wireless Blood Pressure Monitor is an deflation detection device, so the arithmetic is changed. As a result, a new clinical test is done in accordance with ANSI/AAMI SP10, and the device met all applicable requirements of the standard.

9.0 Performance summary

KD-936 Fully Automatic Wireless Blood Pressure Monitor conforms to the following standards:

- IEC 60601-1, Medical Electrical Equipment Part 1: General Requirements for Safety, 1988; Amendment 1, 1991-11, Amendment 2, 1995.
- UL 60601-1, Medical Electrical Equipment Part 1: General Requirements for Safety, 2003.
- IEC 60601-1-1, Medical Electrical Equipment Part 1: General Requirements for Safety – 1. Collateral standard: Safety Requirements for Medical Electrical Systems, 2000.
- EN 60601-1-2, Medical Electrical Equipment Part 1-2: General Requirements for Safety - Collateral standard: Electromagnetic Compatibility - Requirements and Tests, 2007.
- AAMI SP10:2002, Manual, electronic or automated sphygmomanometers.
- AAMI / ANSI SP10:2002/A1:2003 --, Amendment 1 to ANSI/AAMI SP10:2002 Manual, electronic, or automated sphygmomanometers.
- AAMI / ANSI SP10:2002/A2:2006 --, Amendment 2 to ANSI/AAMI SP10:2002 Manual, electronic, or automated sphygmomanometers.

10.0 Comparison to the predicate device and the conclusion

Our device KD-936 Fully Automatic Wireless Blood Pressure Monitor is substantially equivalent to the Fully Automatic Electronic Blood Pressure Monitor iHealth BP3 whose 510(k) number is K102939.

The two devices are very similar in the intended use, the design principle, the material, the performance and the applicable standards. Only their appearance, the memory time, and the user interface are different. The measure process is also changed, that is the new device will get the measurement results when the device is deflating, while iHealth BP3 gets the result during the inflating period. Both KD-936 Fully Automatic Wireless Blood Pressure Monitor and its predicate device can achieve their function with an iphone, ipod or ipad, the difference is that KD-936 transfer the data through blue tooth while iHealth BP3 transfer the data through a data line.

However, the test in this submission provides demonstration that these small differences do not raise any new questions of safety and effectiveness.







Food and Drug Administration 10903 New Hampshire Avenue Document Control Room –WO66-G609 Silver Spring, MD 20993-0002

Andon Health Co., Ltd. c/o Mr. Liu Yi President No. 3 Jin Ping Street, Ya An Road, Nankai District Tianjin, 300190 CHINA

JUN - 1 2012

Re: K120672

Trade Name: KD-936 Fully Automatic Wireless Blood Pressure Monitor, or iHealth BP5

Regulatory Number: 21 CFR 870.1130

Regulation Name: Noninvasive Blood Pressure Measurement System

Regulatory Class: Class II (Two)

Product Code: DXN Dated: Undated

Received: May 2, 2012

Dear Mr. Liu:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Page - 2 Mr. Liu Yi

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please go to http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm for the Center for Devices and Radiological Health's (CDRH's) Office of Compliance. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Bram D. Zuckerman, M.D.

Director

Division of Cardiovascular Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

Statement of Indications for Use

510(k) Number: K(20672

<u>Device name:</u> KD-936 Fully Automatic Wireless Blood Pressure

Monitor

Indications for use:

KD-936 Fully Automatic Wireless Blood Pressure Monitor is for use by medical professionals or at home and is a non-invasive blood pressure measurement system intended to measure the diastolic and systolic blood pressures and pulse rate of an adult individual by using a non-invasive technique in which an inflatable cuff is wrapped around the upper arm. The cuff circumference is limited to 22cm-48cm.

Prescription use	AND/OR	Over-The-Counter Use	YES
(Part 21 CFR 801 Subpart D)	(21 CFR 807 Subpart C)		

(PLEASE DO NOT WRITE BELOW THIS LINE-COUNTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Page 1 of 1

(Division Sign-Off)
Division of Cardiovascular Devices

510(k) Number <u>K/20672</u>